

CLAIMS

What is claimed is:

- 1 1. A method for assigning one or more storage units to one or more host computers in an
2 information handling system, the method comprising:
3 associating one or more application identifiers and one or more storage unit identifiers
4 to form one or more associations, each application identifier identifying an application of a host
5 computer, each storage unit identifier identifying a storage unit of the information handling
6 system; and
7 for each of the one or more associations, assigning each storage unit identified by each
8 storage unit identifier to each host computer having the application identified by each
9 associated application identifier.
- 1 2. The method of claim 1, wherein the association module includes a mapping table
2 having one or more rows, each row of the mapping table including a storage unit identifier, and
3 an application identifier, each row of the mapping table forming an association of a storage unit
4 and an application.
- 1 3. The method of claim 1, wherein each application identifier includes a node name and a
2 port name of a host bus adapter of the host computer having the application identified by the
3 application identifier.
- 1 4. The method of claim 3, wherein the node name includes a World-Wide Name (WWN).
- 1 5. The method of claim 3, wherein the port name includes a World-Wide Name (WWN).
- 1 6. The method of claim 1, wherein the storage unit identifier includes a logical unit
2 number (LUN).

- 1 7. A method for permitting access to one or more storage units in an information handling
2 system, the method comprising:
3 associating an application identifier and a storage unit identifier to form an association,
4 each application identifier identifying an application of a host computer, each storage unit
5 identifier identifying a storage unit of the information handling system;
6 receiving, at one of the one or more storage units, a request from a host, the request
7 including a request application identifier; and
8 permitting access to the one of the one or more storage units if the identifier of the one
9 of the one or more storage units, and the request application identifier have an association in
10 the association module.
- 1 8. The method of claim 7, wherein the association module includes a mapping table
2 having one or more rows, each row of the mapping table including a storage unit identifier, and
3 an application identifier, each row of the mapping table forming an association of a storage unit
4 and an application.
- 1 9. The method of claim 7, wherein each application identifier includes a node name and a
2 port name of a host bus adapter of the host computer having the application identified by the
3 application identifier.
- 1 10. The method of claim 9, wherein the node name includes a World-Wide Name (WWN).
- 1 11. The method of claim 9, wherein the port name includes a World-Wide Name (WWN).
- 1 12. The method of claim 7, wherein the storage unit identifier includes a logical unit
2 number (LUN).
- 1 13. The method of claim 7, wherein creating an association module includes
2 selecting an application identifier; and
3 assigning one or more of the one or more storage units to the host computer having the
4 application identified by the application identifier.

1 14. A method for installing an application in a host computer of an information handling
2 system, the information handling system including one or more storage units, the method
3 comprising:

4 booting the host computer, the host computer including an application, the application
5 having an application identifier;

6 selecting an application identifier;

7 assigning one or more of the one or more storage units to the host, the assigned one or
8 more storage units being associated with the application identifier to form an association; and

9 installing the application on the host computer.

1 15. The method of claim 14, further comprising:

2 booting the host computer;

3 selecting an application identifier, the application identifier being associated with a
4 desired application;

5 configuring the host computer to include the application identifier; and

6 booting the host computer.

1 16. An information handling system for assigning one or more storage units to one or more
2 host connections, the system comprising:

3 one or more host computers having one or more applications, each of the one or more
4 applications having an application identifier;

5 a storage medium interfaced with the one or more host computers, the storage medium
6 including one or more storage units, each storage unit having a storage identifier;

7 an association module associating one or more application identifiers and one or more
8 storage unit identifiers to form an association;

9 a control module in communication with the storage medium and the one or more host
10 connections, the control module performs operations comprising:

11 associating one or more application identifiers and one or more storage unit
12 identifiers to form an association; and

13 for each association, assigning each storage unit identified by each storage unit
14 identifier to each host having the application identified by each associated application
15 identifier.

1 17. The system of claim 16, wherein the association module includes a mapping table
2 having one or more rows, each row of the mapping table including a storage unit identifier and
3 an application identifier, each row of the mapping table forming an association of a storage unit
4 and an application.

1 18. A computer program for assigning one or more storage units in an information handling
2 system to one or more host connections, the computer program comprising executing
3 instructions that cause an information handling system to:

4 associate one or more application identifiers and one or more storage unit identifiers to
5 form an association, each application identifier identifying an application of a host computer,
6 each host computer having one or more host connections, each storage unit identifier
7 identifying one or more storage units of the information handling system; and

8 for each association, assigning each storage unit identified by each storage unit
9 identifier to each host having the application identified by each associated application
10 identifier.

1 19. The computer program of claim 18, wherein the association module includes a mapping
2 table having one or more rows, each row of the mapping table including a storage unit
3 identifier and an application identifier, each row of the mapping table forming an association of
4 a storage unit and an application.

1 20. A data structure for assigning one or more storage units of an information handling
2 system to one or more host connections, the information handling system including one or
3 more host computers having one or more applications, each of the one or more applications
4 having an application identifier, each of the one or more storage units having a storage
5 identifier, the data structure comprising:

6 a mapping table having one or more rows, each row of the mapping table including a
7 storage unit identifier and an application identifier, each row of the mapping table forming an
8 association of a storage unit identified by the storage identifier and a host having the
9 application identified by each associated application identifier.